

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: A. Asp, et al. Group Art Unit: To be assigned
Serial Number: To be assigned Examiner: To be assigned
Filing Date: October 3, 2001
For: A Method of Sequencing

First Preliminary Amendment

Honorable Assistant Commissioner of Patents
Box New Patent Application
Washington, D.C. 20231

Sir:

Please consider the following amendments and remarks in connection with the prosecution of the captioned application, which is a continuation of Serial Number 09/068,783 filed February 22, 1999.

In the Claims:

Please cancel claims 1-10 and 13, without prejudice.

At page 10, line 1:

[CLAIMS]

What is claimed is:

In the Specification

At page 1, line 1, please add the following:

-- This application is a continuation of United States patent application number 09/068,783 having a filing date of February 22, 1999, which is a filing under 35 U.S.C. 371 claiming priority to international patent application number PCT/SE96/01464, the entire disclosure of which is incorporated herein by reference. --

At page 5, line 36, immediately prior to the section entitled "Example :", please insert the following:

- - Brief Description of the Figures

Figure 1 presents a schematic presentation of the method of this invention, illustrating

- a) biotin incorporation at the end of each strand of the polynucleotide;
- b) immobilization of biotinylated strands to a solid support; and
- c) annealing of a blue and a red labeled sequencing primer to the strands.

Figure 2 presents the results obtained with the red label and the blue label in the example. - -

Please amend the paragraph at page 6, lines 22-23, as follows:

Primer: 5' – Biotin – GCT TCC GGC TCG TAT GTT GTG TG-3' (SEQ ID NO 1)

5' – Biotin – AAA GGG GGA TGT GCT GCA AGG CG-3' (SEQ ID NO 2)

At the end of the written description, before the claims, please insert the Sequence Listing attached hereto.

In the Abstract

After the claims, on a separate sheet, please insert the following abstract:

- - Abstract

A method of analyzing a sequence of a polynucleotide of interest, comprising the steps of: a) incorporating one member of a specific binding pair at the end of each strand of a double stranded polynucleotide of interest, the number being of the same type for both strands, b) immobilizing both strands of the polynucleotide to a solid support provided with the other member of the specific binding pair, c) annealing sequencing primers to the immobilized strands, d) sequencing both strands by the chain termination method. The polynucleotide of interest is preferably amplified before or in connection with step a) and most preferably by polymerase chain reaction extension. The invention also comprises a kit for use in analyzing the sequence of a polynucleotide of interest. - -

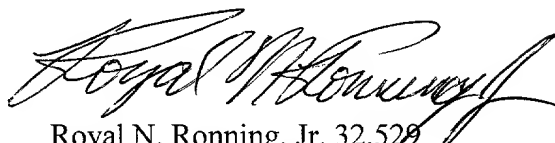
Remarks

Claims 1-13 were filed in the parent to the captioned application; Applicants have cancelled claims 1-10 and 13, without prejudice. Claims 11 and 12 remain.

Applicants respectfully submit that the amendments are fairly based on the specification, and respectfully request their entry. Applicants believe that the claims are in allowable form, and earnestly solicit their allowance.

Should the Examiner have any questions with respect to the foregoing, please contact Applicants' counsel at the telephone number below.

Respectfully submitted,



Royal N. Ronning, Jr. 32,529
Attorney for Applicants

Amersham Pharmacia Biotech, Inc.
800 Centennial Avenue
P.O. Box 1327
Piscataway, New Jersey 08855-1327

Tel: (732) 457-8423
Fax: (732) 457-8463

SEQUENCE LISTING

<110> Asp, Allan
Carstenius, Peder

<120> A Method of Sequencing

<130> Pha1626

<140> To be assigned

<141> 2001-10-03

<150> 09/068,783

<151> 1999-02-22

<150> SE 9504099-4

<151> 1995-11-16

<150> PCT/SE96/01464

<151> 1996-11-13

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 1

gcttccggct cgtatgttgt gtg

23

<210> 2

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 2

PatentIn Ver. 2.1

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.5	18	65
Gender	0.5	0.5	0	1
Marital Status	0.5	0.5	0	1
Education	12.5	1.5	9	16
Income	35000	15000	10000	70000
Health	0.5	0.5	0	1
Smoking	0.2	0.4	0	1
Drinking	0.1	0.3	0	1
Exercise	0.3	0.5	0	1
Stress	0.4	0.5	0	1
Sleep	0.5	0.5	0	1
Work	0.5	0.5	0	1
Family	0.5	0.5	0	1
Friends	0.5	0.5	0	1
Hobbies	0.5	0.5	0	1
Travel	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.5	0.5	0	1
Art	0.5	0.5	0	1
Music	0.5	0.5	0	1
Gardening	0.5	0.5	0	1
Cooking	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Traveling	0.5	0.5	0	1
Volunteering	0.5	0.5	0	1
Religion	0.5	0.5	0	1
Politics	0.5	0.5	0	1
Art	0.5	0.5	0	1
Music	0.5	0.5	0	1
Gardening	0.5	0.5	0	1
Cooking	0.5	0.5	0	1
Reading	0.5	0.5	0	1
Writing	0.5	0.5	0	1
Shopping	0.5	0.5	0	1
Traveling	0.5	0.5	0	1